M 8.1, 87km SW of Pijijiapan, Mexico
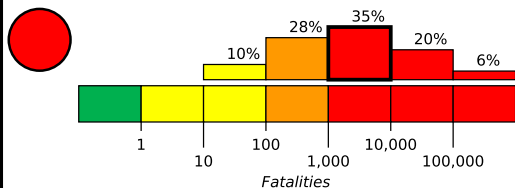
PAGER
Version 4

Origin Time: 2017-09-08 04:49:21 UTC (Thu 22:49:21 local)
Location: 15.0678° N 93.7150° W Depth: 69.7 km
FOR TSUNAMI INFORMATION, SEE: tsunami.gov
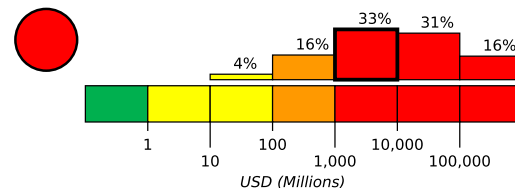
Created: 2 hours, 9 minutes after earthquake

Estimated Fatalities

⬤ 10% 28% 35% 20% 6%
1 10 100 1,000 10,000 100,000
Fatalities

Red alert for shaking-related fatalities and economic losses. High casualties and extensive damage are probable and the disaster is likely widespread. Past red alerts have required a national or international response.

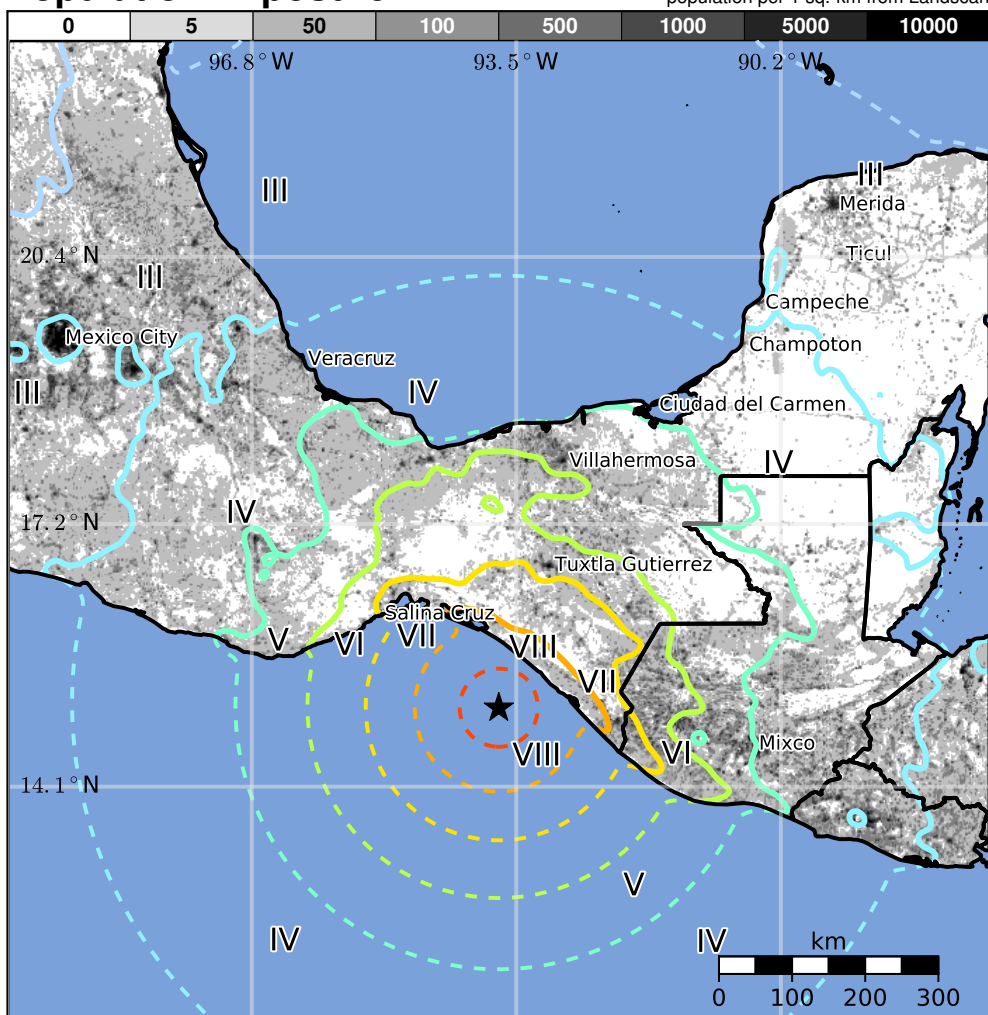Estimated economic losses are 0-1% GDP of Mexico.

Estimated Economic Losses

⬤ 4% 16% 33% 31% 16%
1 10 100 1,000 10,000 100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	23,604k*	37,718k*	19,460k	6,679k	2,144k	579k	23k	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

| 0 | 5 | 50 | 100 | 500 | 1000 | 5000 | 10000 |

Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are adobe block with concrete bond beam and mud wall construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1985-10-11	307	4.5	VI(14k)	0
1978-07-29	294	4.9	VII(14k)	17
1991-09-18	303	6.2	IX(9k)	25

Recent earthquakes in this area have caused secondary hazards such as tsunamis and landslides that might have contributed to losses.

Selected City Exposure
from GeoNames.org

MMI	City	Population
IX	La Esperanza (El Zapotal)	1k
IX	Manuel Avila Camacho (Ponte Duro)	2k
IX	El Palmarcito	1k
VIII	Joaquin Miguel Gutierrez (Margaritas)	2k
VIII	Doctor Belisario Dominguez (La Barra)	1k
VIII	Tres Picos	5k
V	Guatemala City	995k
V	**Mexico City**	**12,294k**
IV	Puebla	1,590k
IV	**Merida**	**717k**
III	San Salvador	526k

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us2000ahv0#pager

Event ID: us2000ahv0